SEQUENCE LISTING

<110> MARX, ACHIM

FARWICK, MIKE

HERMANN, THOMAS

SCHISCHKA, NATALIE

BATHE, BRIGITTE

<120> NUCLEOTIDE SEQUENCES WHICH CODE FOR THE oxyR GENE

130> 211226US0X

<\$\\ 50> DE 10042052.4

4151> 2000-08-26 □

₹151> 2001-03-02

<150> US 60/279,415

<151> 2001-03-29

<160> 4

<170> PatentIn version 3.1

<210> 1

<211> 1675

<212> DNA

<213> Corynebacterium glutamicum

<220>

<221> CDS

<222> (491)..(1471)

<223>

<400> 1	
gccaaccgca gggcatttac catcatggtg cgcaacgcca tgttccgcct tgtggagcta	60
[] titgcttatg aaaaggaaga tcagcttagt cagatgactg aatacctgga tgaggctcct []	120
gatttcggtg ctgcgatgga tgcgtacttt gatgaatatg cggatcttga taccggcccg	180
<pre> @agctcgtg gaccagagtt cttcaaggta gagcacacgg gaagaatgtg ggaggtgcgt</pre>	240
daggtggtga aggatccaga aggtgataat teettegegt ttgttgeeae eattgatett	300
。 gatgcctctg atgatgcagg tgaggtgcgt tttggatcgc tgtcgattga ccacaactag 個	360
gggtttgcgt cgaaaagcaa gcacgcctgg tgcctgattt gagcggtttt acctatggcg	420
\ ttggcgcc gtcaaactgt cccagcgatt tcattattat tttcgtgcat tcaccgttat	480
agttatagge atg age aat aaa gag tae egg eee aca ete gee eag ett	529
Met Ser Asn Lys Glu Tyr Arg Pro Thr Leu Ala Gln Leu 1 5 10	
cgc acc ttt gtc acc atc gca gaa tgc aag cac ttt ggt act gcc Arg Thr Phe Val Thr Ile Ala Glu Cys Lys His Phe Gly Thr Ala Ala 15 20 25	577
acc aag ctg tcc att tcg cag cca tcc ctc tcc cag gca ctt gtc gca Thr Lys Leu Ser Ile Ser Gln Pro Ser Leu Ser Gln Ala Leu Val Ala 30 35 40 45	625
tta gaa aca ggc ctg gga gtt cag ctg att gaa cgc tcc acc cgc aag Leu Glu Thr Gly Leu Gly Val Gln Leu Ile Glu Arg Ser Thr Arg Lys 50 55 60	673
gtc att gtc acc cca gcg ggc gag aag ttg ctg cca ttc gcc aaa tcc Val Ile Val Thr Pro Ala Gly Glu Lys Leu Leu Pro Phe Ala Lys Ser 65 70 75	721

<u>د</u>	~++	~~~	~~~		~~~	L _L					~~~		~~~			7.00
													ggc			769
	_				_	_		_					acg Thr		_	817
			_	_		_	_				_	-	gaa Glu			865
_	_	-				_		_			_		ctt Leu			913
													ctg Leu 155			961
gag													gac Asp			1009
₫‡ C													gac Asp			1057
dta													gac Asp			1105
tgc													gac Asp			1153
ccc Pro	att Ile	agc Ser	tcc Ser 225	act Thr	act Thr	gct Ala	gtc Val	acc Thr 230	cgc Arg	gca Ala	tcc Ser	agc Ser	ctt Leu 235	acc Thr	acc Thr	1201
													gtc Val			1249
													aca Thr			1297
													gtg Val			1345

													ctc Leu			1393
													act Thr 315			1441
					gtc Val	Ala				taa	gttti	ttc ·	tagaç	ggtt	tt	1491
ccaç	gagt	cag	ctaca	aagca	aa aa	aagc	cctt	t cca	attga	atgc	aca	ccaa	cgt q	gaga	ttcaag	1551
ggaaagggct ttattgattg cagaatgcct actgcattag cggcgctcca ccggaatatt												1611				
tcca	acca	ctg a	atct	ggcg	gt aa	aatat	tgaad	c ggt	tagad	cagc	atca	atta	ctg q	gcag	cacgat	1671
gato	2															1675
		0														
ga 10 (211) (212) (212))> ,	2														
<211	L> .	327														
≤ 212	2> :	PRT														
213> Corynebacterium glutamicum																
Met	Ser	Asn	Lys		Tyr	Arg	Pro	Thr		Ala	Gln	Leu	Arg		Phe	
1				5					10					15		
Val	Thr	Ile	Ala 20	Glu	Cys	Lys	His	Phe 25	Gly	Thr	Ala	Ala	Thr 30	Lys	Leu	
Ser	Ile	Ser 35	Gln	Pro	Ser	Leu	Ser 40	`Gln	Ala	Leu	Val	Ala 45	Leu	Glu	Thr	
Gly	Leu	Gly	Val	Gln	Leu		Glu	Arg	Ser	Thr	_	Lys	Val	Ile	Val	
	50					55					60					



Ala Ala Glu Ser Phe Leu Ser His Ala Lys Gly Ala Asn Gly Ser Leu Thr Gly Pro Leu Thr Val Gly Ile Ile Pro Thr Ala Ala Pro Tyr Ile Leu Pro Ser Met Leu Ser Ile Val Asp Glu Glu Tyr Pro Asp Leu Glu Pro His Ile Val Glu Asp Gln Thr Lys His Leu Leu Ala Leu Leu Arg Asp Gly Ala Ile Asp Val Ala Met Met Ala Leu Pro Ser Glu Ala Pro Gly Met Lys Glu Ile Pro Leu Tyr Asp Glu Asp Phe Ile Val Val Thr 4,5 Ü m A#a Ser Asp His Pro Phe Ala Gly Arg Gln Asp Leu Glu Leu Ser Ala ļ.J. Leu Glu Asp Leu Asp Leu Leu Leu Asp Asp Gly His Cys Leu His W Asp Gln Ile Val Asp Leu Cys Arg Arg Gly Asp Ile Asn Pro Ile Ser Ser Thr Thr Ala Val Thr Arg Ala Ser Ser Leu Thr Thr Val Met Gln Leu Val Val Ala Gly Leu Gly Ser Thr Leu Val Pro Ile Ser Ala Ile Pro Trp Glu Cys Thr Arg Pro Gly Leu Ala Thr Ala Asn Phe Asn Ser Asp Val Thr Ala Asn Arg Arg Ile Gly Leu Val Tyr Arg Ser Ser Ser



Ser Arg Ala Glu Glu Phe Glu Gln Phe Ala Leu Ile Leu Gln Arg Ala 290 295 300

Phe Gln Glu Ala Val Ala Leu Ala Ala Ser Thr Gly Ile Thr Leu Lys 310 305 315 320

Gln Asn Val Ala Val Ala Gln 325

<210> 3

<211> 30

<212> DNA

₹213> Artificial Sequence

Synthetic DNA

<400> 3
gatcgagaat tcaaaggaag atcagcttag

₹210>

211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic DNA

<400>

ggaaaacctc tagaaaaact

20

30